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承认书 APPROVAL

版本: A1

客 户
CUSTOMER:

品 名 规 格
DESCRIPTION: 真天线 **2.4-5.8G** 扁形 **99** 白色天线-**IPEX** 出线 **200mm**

料 号
PART NO.: YS030-0128

客 户 料 号
CUS PART NO.:

日 期
D A T E: 2023-4-3

呈样签章:

工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	业 务 SALES DEPARTMENT

客户承认签章 :

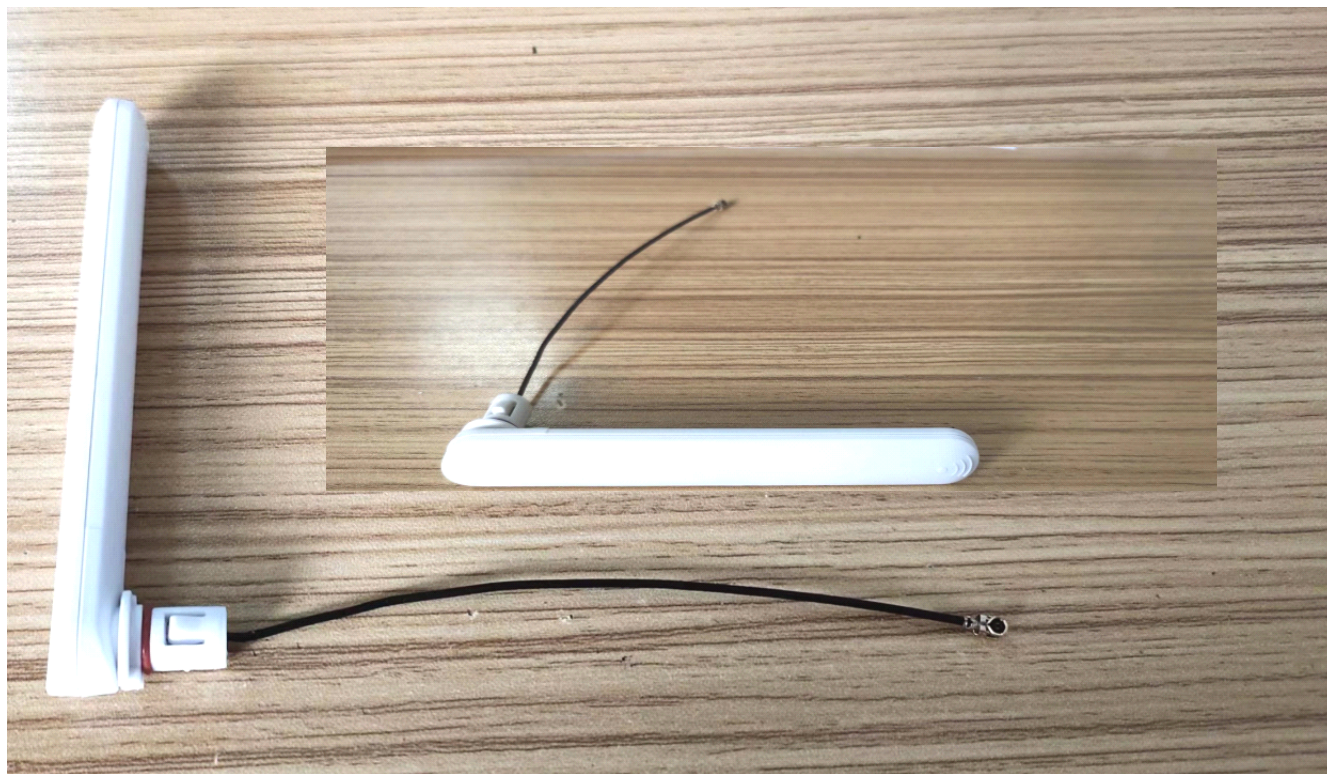
工 程 ENGINEERING DEPARTMENT	品 保 Q C DEPARTMENT	采 购 PURCHASING DEPARTMENT

※ 客户确认样品附意栏:

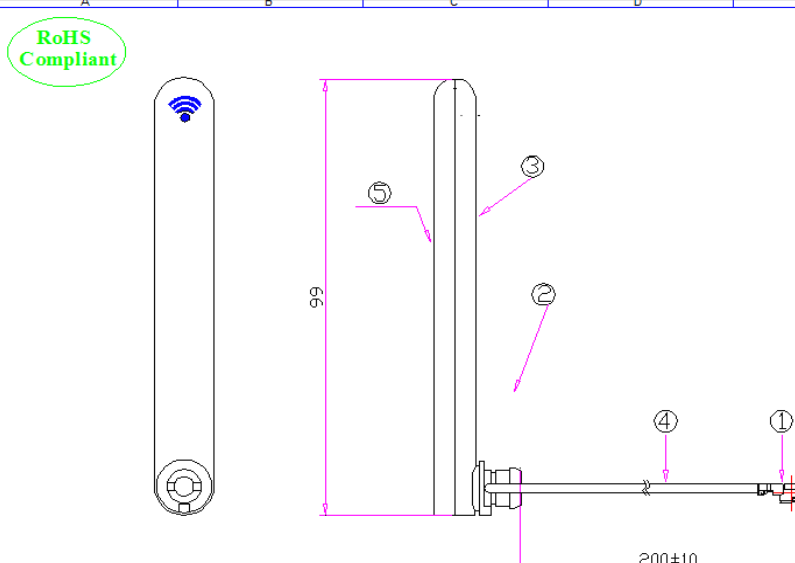
电器技术参数

电性能指标		Electrical Specifications	
频率范围	2400/5800MHZ	Frequency Range	2400/5800MHZ
电压驻波比	≤2.0	VSWR	≤2.0
增益	3DBI	GAIN	3DBI
输入阻抗	50 Ω	Input Impedance	50 Ω
机械指标		Mechanical Specifications	
天线颜色	白色	Antenna Color	WHITE
接口形式	IPEX	Input connector	IPEX
天线长度	200mm	Cable length	200mm
工作温度	-40℃~+85℃	Working Temperature	-40℃~+85℃
工作湿度	20~80%	Working Humidity	20~80%

产品图片:



工程图



RoHS Compliant

98

200±10

REV	DATE	DESCRIPTION	NAME
A1			
A2			

要求:

- 成品须100%测试导通OK
- 成品须100%全检OK.
- 采用环保制程.成品
- 符合ROHS要求.
- 接头拉力: 1.5KG~
- 未注公差请以一般公差为准.

频率范围 Frequency Range	2400-5800MHZ
输入阻抗 Impedance	50 OHM
驻波比 VSWR	<2.0
增益 Gain	3.0DBI
极化 Polarization	垂直
方向性 Radiation	全向

8				
7				
6				
5	PCB板	2.4G-5.8G-FR4	1	1701-0066
4	线材	1.13黑-48-锡-FEP	1	1301-0012
3	橡胶外套	2.5DIB-WHITE-扁形	1	1201-0017
2	橡胶下座	2.5DIB-WHITE-下节	1	1201-0014
1	IPEX	20278-112R-13-插头	1	1113-0004
NO.	NAME	Description	Q' TY	Part No.

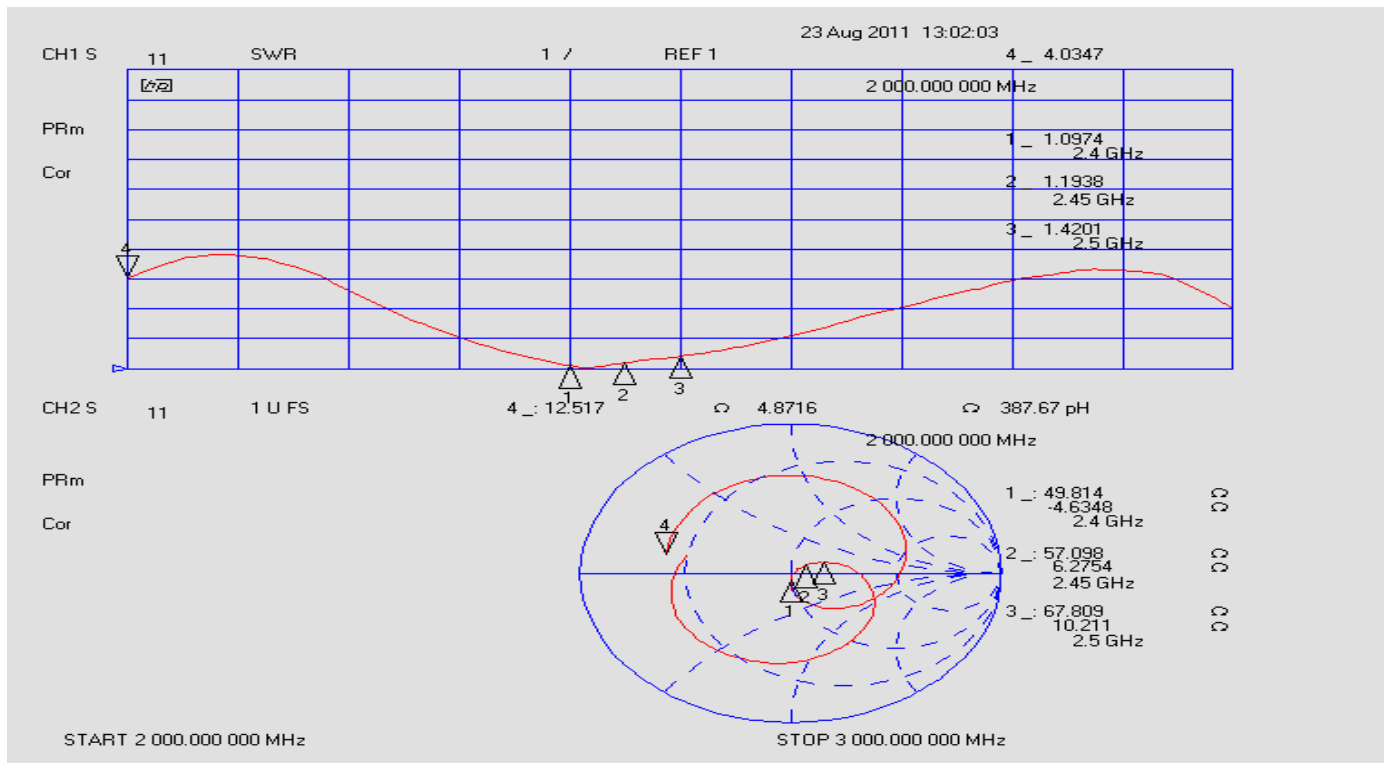
公差	0~1	±0.1
	1~10	±0.3
一般公差	11~30	±0.5
	31~100	±0.8
图法	101~300	±1.0
	301~	±2.0
	ANGULAR	±1°

品名规格 (PRODUCT NAME)		IPEX-2.4-5.8G 90度扁形一体天线	
料号 (PART NAME)		YS030-0129	
客户料号 (CUS PART NAME)			
绘图 (DRAW)	NELR	版本 (REV)	A1
审核 (CHECK)	CHEM	日期 (DATE)	2022-4-13
核准 (APP.)	JERLR	页码 (PAGE)	1/1

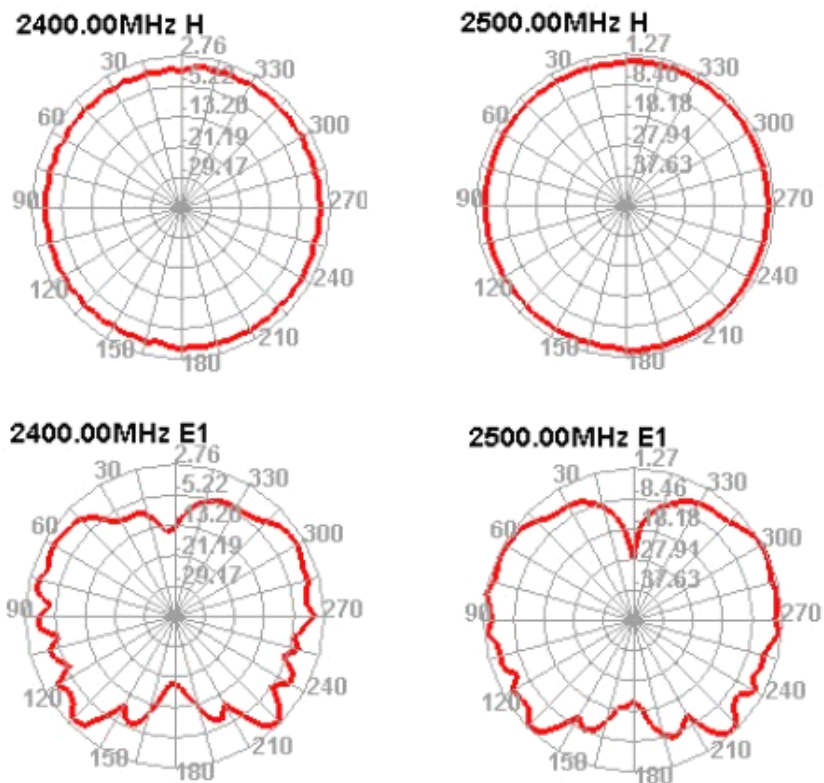
环境性能测试:

项目	测试条件	规格
储存环境	在没有指定的情况下测试温度、湿度、气压如下: 1. 温度为-30℃~+80℃ 2. 相对湿度为45%-85% 3. 气压为86kpa-106kpa	电气机械性能正常
高低温试验	在70℃与40℃之间进行5次循环, 然后在正常条件下1-2H, 检查外观质量。	尺寸应满足规定并应满足满足于机械、电气性能
耐恒定湿热试验	相对湿度95±3%, 试验温度: 40℃. 持续2H作用后, 试品取出后5min之内测定电气性能, 试品在正常条件下1-2H, 检查外观质量	尺寸应满足规定并应满足满足于机械、电气性能
振动试验	振频范围10-55HZ, 位移幅值: 0.35MM, 加速度幅值: 50.0M/S, 扫频循环次数: 30次	电气机械性能正常
跌落试验	1M高空按照互相垂直的轴方向自由跌落3次	电气机械性能正常

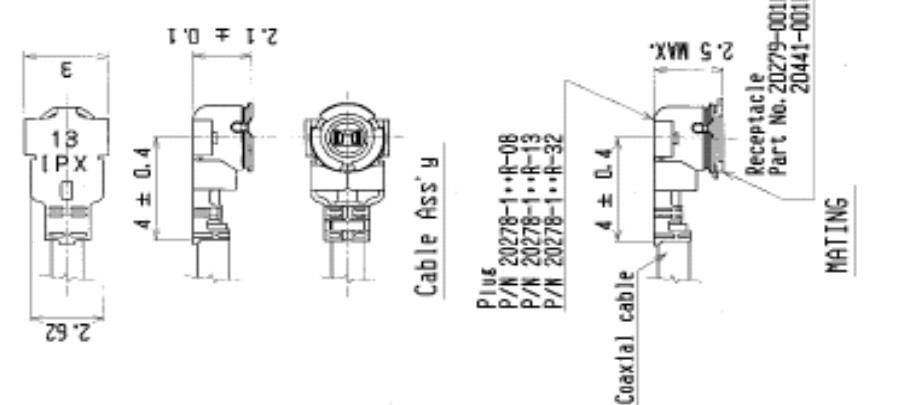
网络分析测试:



方向图:



Material Data Sheet MHF Connector

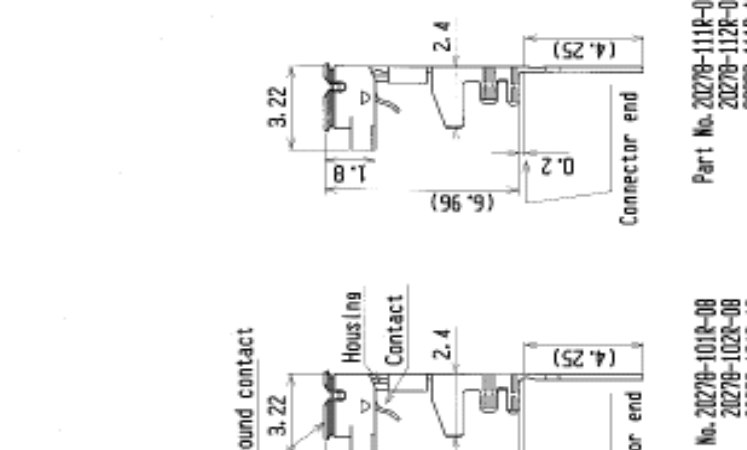


Cable Assy
Plus
P/N 20278-10R-08
P/N 20278-10R-13
P/N 20278-10R-32

Coaxial cable
2.5 MAX.
Receptacle
Part No. 20279-001E-01
20441-001E-01

MATING

I-PEX	Interconnect and Packaging Electronics TOKYO, JAPAN
TITLE	General
REV. ECN	REV. REC'D
BY	DATE
APP'D BY	DATE
CUSTOMER	COPY
SCALE	UNIT
DWG. No.	20278
SHEET	REV.
1/4	1/4
mm	19C



Connector end
Part No. 20278-111R-08
20278-112R-08
20278-111R-13
20278-112R-13
20278-111R-32
20278-112R-32
For seal auto
termination machine
(without notch)

Connector end (notch)
Part No. 20278-101R-08
20278-102R-08
20278-101R-13
20278-102R-13
20278-101R-32
20278-102R-32
For hand tool
(with notch)

DESIGN D BY	DATE
K. Ohbayashi	JUN/13/01
CHK D BY	DATE
T.H	
APP'D BY	DATE
K. Katabuchi	JUN/13/01
CUSTOMER	PROJECTION
SCALE	UNIT
DWG. No.	20278
SHEET	REV.
1/4	1/4
mm	19C

GENERAL TOLERANCE

6 MAX. ±0.2

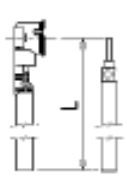
6 OVER MAX. 30 ±0.3

30 OVER MAX. 120 ±0.5

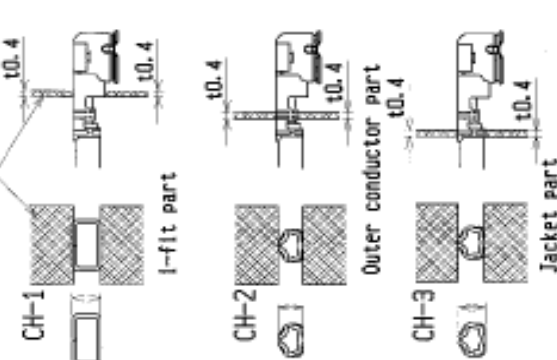
ANGLE ±2°

FORM REV. 4

Part No. of non halogen free type	20278-101R-08 20278-111R-08	20278-101R-13 20278-111R-13	20278-101R-32 20278-111R-32	20278-101R-18 20278-111R-18
Part No. of halogen free type	20278-102R-08 20278-112R-08	20278-102R-13 20278-112R-13	20278-102R-32 20278-112R-32	20278-102R-18 20278-112R-18
Housing color	White	Black	Black	White
Applicable cable nominal dimension	φ0.81 Nominal φ0.65 Nominal 1.25±0.1 1.16±0.1	φ1.13 Nominal φ0.93 Nominal 1.25±0.1 1.16±0.1	φ1.32 Nominal φ0.66 Nominal 1.25±0.1 1.16±0.1	φ1.8 Nominal RG178 B/U φ1.95 Nominal 1.25±0.1 1.16±0.1
Jacket silver or tin plating	Inner conductor silver plating			
Dielectric core				
Outer conductor				
Braded shield of Outer conductor				
P/N of hand Tool	90187-008C	90187-013C	90187-032C	90233-018
P/N of seal auto termination machine	90213-008C	90213-013C	90213-032C	90232-018
Sect. M-M	1.68 1.12	2.24 1.48	2.29 1.95	2.71 1.9
Sect. L-L	1.72 1.19	2.28 1.91	2.37 1.71	3.1 2.26
Crimp Height	CH-1 1.34~1.40 CH-2 0.75~0.84 CH-3 0.85~0.97	1.34~1.40 1.06~1.14 1.15~1.35	1.34~1.40 1.20~1.30 1.26~1.46	1.34~1.40 1.41~1.49 1.70~1.80



Cable cut length



Crimp Height

Blade Micrometer

1-fit part

Outer conductor part

Jacket part

I-PEX Interconnect and Passive Elements TOKYO, JAPAN

TITLE: General

REV: 3/4 19C

DATE: 20278

SCALE: UNIT: DIM: No. 20278

CUSTOMER COPY

SERIES No. 2814

REVISION BY DATE APP

REV. RECORD

PRODUCTION

DATE

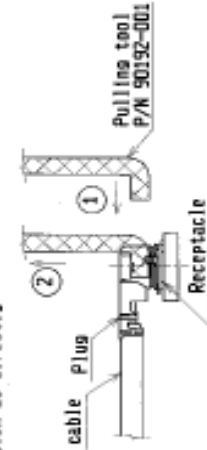
CHK'D BY DATE

DESIGN'D BY DATE

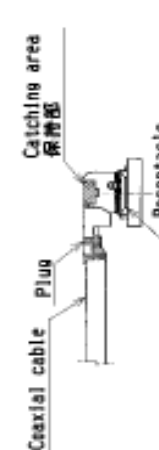
FORM REV. 4

5-2 Unmating.

(1) In case of unmating by pulling tool.
Please use the pulling tool as the following drawing, and please pull plug to vertical direction as directly as possible.



(2) In case of unmating directly by hand
Please catch the catching area of plug, and please pull plug to vertical direction as directly as possible.



5-3 Crimp over standards of outer conductor

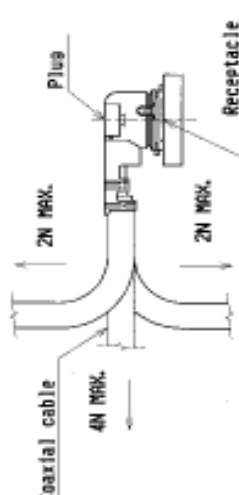
Standards: Less than 10% from total numbers of outer conductor
(Numbers of outer conductor's crimp over from outer conductor's barrel)

5-4 Caution about Heat shrinkage tubes
Please be careful not to melt housing when using heat shrinkage tubes.
It will become cause of open circuit.

6. This is 'Pb-free' connector.

Notes

- Material
(1) Housing: PBT, UL94V-0
(2) Contact
phosphor bronze
gold plating 0.1μm MIN.
over nickel 1.27μm MIN.
(3) Ground contact
phosphor bronze
gold plating 0.05μm MIN.
over nickel 1.27μm MIN.
2. Packing: reel
3. Mating partner part No.
: 20279-001E-01, 20441-001E-01
4. Permissible load of cable at mating



1. 材料

- ハウジング: PBT, UL94V-0
コネクタ
- ハウジング
金メッキ0.1μm MIN.
下層 ニッケル1.27μm MIN.
- グラウンドコネクタ
ハウジング
金メッキ0.05μm MIN.
下層 ニッケル1.27μm MIN.

2. 梱包: リール
3. 対応相手 part No.
: 20279-001E-01, 20441-001E-01
4. コネクタがめ合時のケーブルに耐える荷重

5-1 Mating.

Please mate the connector straightly to vertical direction as much as possible, adjusting the mating axis of plug and receptacle.
As excessive slant angle mating may break the connector, please don't do it.

5-1 コネクタ挿入時

PlugとReceptacleのめ合軸を合わせ、できるだけ直に挿入して下さい。
傾斜角度の挿入は行わないで下さい。
コネクタ接合の角度が大きすぎると、挿入時に破損は避けられません。

5-2 コネクタ抜き

(1) 抜き工具を用いる場合
下図のようにてきるだけ垂直に引き抜いて下さい。

(2) 手で直接引き抜く場合
下の保持部をつかみ、できるだけ垂直に引き抜いて下さい。

5-3 外部導体はみ出し量

外部導体はみ出し量測定
: 外部導体トータル本数の10%以下
(外部導体バレルの外にはみ出し量)

5-4 熱収縮チューブについて
熱収縮チューブで外部導体を覆う場合は、熱収縮チューブの温度に注意して下さい。熱収縮チューブが溶ける原因となり、回路がオープンになる原因となります。

6. 本コネクタは「Pb-free」である

GENERAL TOLERANCE

6 MAX.	±0.2
6 OVER MAX. 30	±0.3
30 OVER MAX. 120	±0.5
ANGLE	±2°

DESIGN'D BY	DATE		
CHK'D BY	DATE		
APP'D BY	DATE		
REV. EON	BY	DATE	APP
REV. RECORD	CUSTOMER COPY		
SERIES No.	2814		

TITLE	I-PEX Interconnect and Passive Electrical TOKYO, JAPAN		
REV. EON	BY	DATE	APP
REV. RECORD	CUSTOMER COPY		
SERIES No.	20278		
SCALE	UNIT	CMG. No.	REV.
1/1	mm	20278	4/4 19C

FORM REV. 4